

Abstract of the Disclosure

5 A ruled line extracting apparatus obtains
circumscribed rectangles of pixel concatenation
regions included in an input pattern, and calculates
the most frequent value of their heights.
Additionally, the apparatus integrates segments by
ignoring a wild card segment, and calculates the most
frequent value of height/width of extracted straight
10 lines and segments structuring the straight line.
Next, it performs a process for integrating/deleting
straight lines using each threshold value based on the
highest frequency value. Then, it checks/deletes a
straight line according to a distribution of black
15 pixels around the straight line, and recognizes the
remaining straight lines as ruled line candidates.